

METHOD AND APPARATUS FOR REDUCING NOISE AND
VIBRATION IN SWITCHED RELUCTANCE MOTOR DRIVES

5 ABSTRACT OF THE DISCLOSURE

 According to one embodiment of the invention, a
method includes generating, by a computer, a phase
current profile, generating a phase current according to
the phase current profile, and applying the phase current
10 to the switched reluctance motor drive. Generating the
phase current profile includes initializing one or more
first profile parameters which define at least a first
portion of the phase current profile. Generating the
phase current profile also includes determining whether a
15 first performance criterion is satisfied based on
operation of the switched reluctance motor drive using
the first profile parameters. Generating the phase
current profile also includes updating at least one the
first profile parameters if the first performance
20 criterion is not satisfied.